

IN THE CLAIMS:

Claims 1, 17, 21, and 23 are amended herein. Claims 3 and 22 are cancelled. All pending claims are produced below.

1. (Currently Amended) A system using derived voice over data technology to provide analog voice telephony to a client premise, comprising:

a derived voice over data termination device located outside of the client premise, said derived voice over data termination device configured to convert between base band signals and derived voice over data signals utilizing derived voice over data technology;

a connection between the client premise and the derived voice over data termination device, wherein the connection between the client premise and the derived voice over data termination device is over a twisted wire pair and carries analog frequencies; and

a digital subscriber line access multiplexer coupled between the derived voice over data termination device and one of an ATM switch, a frame relay switch, and a router, the digital subscriber line access multiplexer being configured to multiplex derived voice over data signals to and from the derived voice over data termination device.

2. (Original) The system of claim 1, wherein said connection between the client premise and the derived voice over data termination device is powered by said derived voice over data termination device.

3. (Cancelled)

4. (Cancelled)

5. (Previously Presented) The system of claim 1, wherein the derived voice over data termination device is connected to at least one port of the digital subscriber line access multiplexer, each of said at least one port is selected from a group consisting of digital subscriber line (DSL), DS1, DS3, OC-3, OC-12, Ethernet, E3, E1, and OC48.

6. (Previously Presented) The system of claim 5, wherein the DSL includes asymmetric DSL (ADSL), single line DSL (SDSL), very high rate DSL (VDSL), high bit-rate DSL (HDSL), and rate adaptive DSL (RADSL).

7. (Original) The system of claim 1, wherein the derived voice over data termination device is selected from the group consisting of voice over ATM, voice over data network, voice over IP, and voice over frame relay termination devices.

8. (Original) The system of claim 1, wherein the derived voice over data termination device is located in a wire center.

9. (Previously Presented) The system of claim 1, wherein the derived voice over data termination device is configured to receive and generate from base band voice signals packetized digital voice data.

10. (Original) The system of claim 1, further comprising a customer premise equipment located at the client premise, wherein the customer premise equipment is coupled to the connection between the client premise and the derived voice over data termination device.

11. (Previously Presented) The system of claim 10, wherein the customer premise equipment is configured to receive base band voice signals and digital data signals.

12. (Original) The system of claim 11, wherein the connection between the client premise and the derived voice over data termination device carries both base band voice signals and digital data signals.

13. (Previously Presented) The system of claim 11, wherein the connection between the client premise and the derived voice over data termination device includes a plain old telephone service splitter, the plain old telephone service splitter being connected to a port of the digital subscriber line access multiplexer and to a port of the derived voice over data termination device.

14. (Previously Presented) The system of claim 13, wherein the connection between the plain old telephone service splitter and the port of the digital subscriber line access multiplexer carries digital data signals and the connection between the plain old telephone service splitter and the port of the derived voice over data termination device carries base band voice signals.

15. (Original) The system of claim 1, wherein the connection between the client premise and the derived voice over data termination device includes a main distribution frame coupled between the derived voice over data termination device and the client premise.

16. (Previously Presented) The system of claim 1, wherein the derived voice over data termination device is a voice over data termination device configured to support transmission to one of a multiplexer and a switch, and wherein the voice over data termination device is configured to support transmission utilizing digital subscriber line (DSL), DS1, DS3, OC-3, OC-12, Ethernet, E3, E1, and OC48.

17. (Currently Amended) A derived voice over data packet network, comprising:
a derived voice over data termination device located in a wire center and coupled to a client premise over a ~~single metal~~ twisted wire pair, the derived voice over data termination device being configured to convert between base band signals and derived voice over data signals utilizing derived voice over data technology;

a derived voice over data switch coupled to the derived voice over data termination device and to a public switched telephone network; and

a digital subscriber line access multiplexer coupled between the derived voice over data termination device and the derived voice over data switch, the digital subscriber line access multiplexer being configured to multiplex derived voice over data signals to and from the derived voice over data termination device.

18. (Original) The derived voice over data packet network of claim 17, wherein the derived voice over data switch is coupled to the public switched telephone network via a voice gateway and a voice switch.

19. (Original) The derived voice over data packet network of claim 17, further comprising a regional switching center, the regional switching center includes the derived voice over data switch.

20. (Cancelled)

21. (Currently Amended) A method for providing base band voice telephony to a client telephone, comprising:

providing a derived voice over data termination device in a wire center, the derived voice over data termination device being configured to convert between base band signals and derived voice over data signals utilizing derived voice over data technology;

providing a base-band analog connection between the client telephone and the derived voice over data termination device over a twisted wire pair;

transmitting base-band analog voice signals between the client telephone and the derived voice over data termination device in the wire center; and

transmitting derived voice over data signals between the derived voice over data termination device and a voice gateway connected to a public switched telephone network by multiplexing the derived voice over data signals through a digital subscriber line access multiplexer, the digital subscriber line access multiplexer being coupled between the derived voice over data termination device and the voice gateway.

22. (Cancelled)

23. (Currently Amended) The method of claim [[22]] 21, wherein said base-band analog connection between the client telephone and the derived voice over data termination device is via a splitter, said method further comprising transmitting digital data signals between a client premise equipment and the splitter over said twisted single-metal wire pair.

24. (Previously Presented) The method of claim 23, further comprising transmitting digital data signals between the splitter and the digital subscriber line access multiplexer.